Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-11-29-07** **Date: 04-12-17**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.
Address	:	T. Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to RCC drains and covering slab at Kalashrinagara cross roads 3rd, 4th, 5th, 6th, in Ward no.15 T. Dasarahalli
Agency	:	Technical Manager (West), KRIDL, Project Implementationunit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/75/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	29-11-17
Sample ID No	:	2017-11-29-07 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	29-11-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1223	1223	8.2	91.8	90-100
3	20 mm	5972	7195	48.0	52.0	30-70
4	10 mm	5575	12770	85.1	14.9	10-35
5	4.75 mm	1873	14643	97.6	2.4	0-5
6	Pan	357	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-11-29-07** **Date: 04-12-17**

Sample ID No : 2017-11-29-07 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.1	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.23	–

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-11-29-07** **Date: 04-12-17**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.
Address	:	T. Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to RCC drains and covering slab at Kalashrinagara cross roads 3rd, 4th, 5th, 6th, in Ward no.15 T. Dasarahalli
Agency	:	Technical Manager (West), KRIDL, Project Implementationunit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer Reference	:	BBMP/EE/DD/WO/75/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-17
Sample ID No	:	2017-11-29-07 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	29-11-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	384	384	7.7	92.3	90-100
3	10 mm	2137	2521	50.4	49.6	25-55
4	4.75 mm	2228	4749	95.0	5.0	0-10
5	Pan	251	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-11-29-07** **Date: 04-12-17**

Sample ID No : 2017-11-29-07 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.2	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.55	–
5	Bulk Density(Compacted) (Kg/l)	1.59	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	25.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-11-29-07** **Date: 04-12-17**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.

Address : T. Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to RCC drains and covering slab at Kalashrinagara cross roads 3rd, 4th, 5th, 6th, in Ward no.15 T. Dasarahalli

Agency : Technical Manager (West), KRIDL, Project Implementationunit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/75/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-11-17

Sample ID No : 2017-11-29-07 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 29-11-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	28	28	2.8	97.2	90-100	90-100	90-100	95-100
3	2.36 mm	183	211	21.1	78.9	60-95	75-100	85-100	95-100
4	1.18 mm	188	399	39.9	60.1	30-70	55-90	75-100	90-100
5	600 micron	247	646	64.6	35.4	15-34	35-59	60-79	80-100
6	300 micron	218	864	86.4	13.6	5-20	8-30	12-40	15-50
7	150 micron	77	941	94.1	5.9	0-10	0-10	0-10	0-15
8	Pan	59	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-11-29-07** **Date: 04-12-17**

Sample ID No : 2017-11-29-07 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.35	–
2	Specific Gravity	2.69	–
3	Material finer than 75 micron(%)	5.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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